SPECIFICATIONS AS460e

DESCRIPTION

A 2-way mid/high system in a trapezoidal enclosure. Includes a horn-loaded 10-in MF cone with Radial Phase Plug™ and a 1.4-in exit/2.5-in voice coil HF neodymium compression driver on a 60° x 45° constant directivity horn. Powering mode is selectable: bi-amplified or passive MF/HF crossover.

APPLICATION

The AS460e is engineered for use in permanent installations. It provides the mid/high performance capabilities of the 60°(h) ASe Series systems in a separate mid/high module. It can be used as a stand-alone system for speech-only applications or, together with an AS415e, AS422e or AS625e LF module, provide full range performance in a flexible, modular, multi-enclosure format. Includes comprehensive 3/8"-16 mounting/suspension points. Six year warranty.

Applications include:

Stadiums	Arenas
Performing Arts Centers	Houses of Worship

PERFORMANCE

Frequency Response (Hz)	
±3 dB	200 Hz to 15 kHz
-10 dB	180 Hz
Axial Sensitivity (dB SPL, 1 Watt @ 1m)	
Passive MF/HF	107
MF	109
HF	109
Impedance (Ohms)	
Passive MF/HF	8
MF	8
HF	8
Power Handling (Watts, Continuous)	
Passive MF/HF	450
MF	400
HF	125
Recommended High-Pass Frequency	
24 dB/Octave	200 Hz (speech) 300 Hz (with LF)
Calculated Maximum Output (dB SPL @ 1m)	
Passive MF/HF Peak	139
MF Peak	141
HF Peak	136
Passive MF/HF Long term	133
MF Long Term	135
HF Long Term	130
Nominal Coverage Angle/-6 dB points (degrees)	
Horizontal	60
Vertical	45

PHYSICAL

Product Group	I
System Configuration	2-way, mid/high
Powering Configuration(s)	Bi-amplified or passive MF/HF crossover
MF Subsystem & Loading	1x 10-in cone, Radial Phase Plug™ horn-loaded
HF Subsystem & Loading	1x 1.4-in exit/2.5-in voice coil neodymium compression driver on constant directivity horn
Cabinet Type (shape)	Trapezoidal
Enclosure Materials	Exterior grade Baltic birch plywood
Finish	Wear-resistant textured black paint
Connectors	2x 6-Contact terminal barrier strip, jumpers used for powering configuration
Suspension Hardware	(18) 3/8"-16 threaded mounting/ suspension points (4 each top, bottom and sides, 2 on back)
Grille	Powder coated perforated steel

Dimensions	**inches**	**millimeters**
Height	22.5	572
Width (Front)	24.6	626
Width (Rear)	12.3	312
Depth	23.0	584
Trapezoid Angle	15 degrees per side	

Weights	**pounds**	**kilograms**
Net Weight	95	43.2
Shipping Weight	110	50.1

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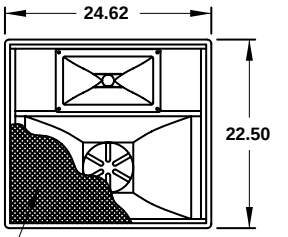
DIMENSIONAL DRAWING

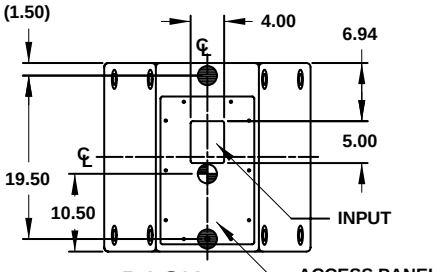
◎ INDICATES MOUNTING POINT, 3/8-16 THREADED HOLE (PI ANGLE)

● INDICATES MOUNTING POINT, 3/8-16 THREADED HOLE (NUT PLATE).

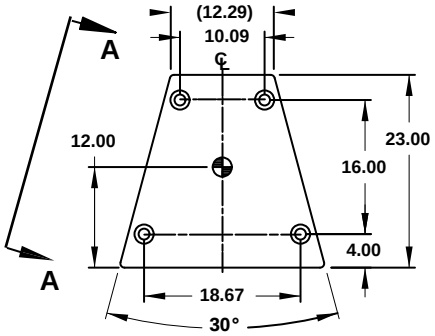
⊕ INDICATES CENTER OF BALANCE.



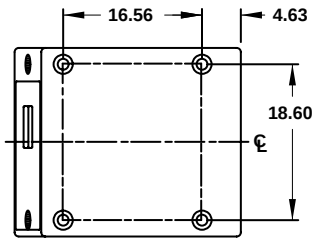
FRONT



BACK



TOP/BOTTOM



SIDES

DIMENSIONS APPLY TO BOTH SIDES

509129 (0)
5/10/01

Manufacturing tolerances are +/- 0.13 and +/- 1°

A & E SPECIFICATIONS

The bi-amplified or passive mid/high loudspeaker system shall incorporate a horn-loaded 10-in MF cone with Radial Phase Plug™ and a 1.4-in exit/2.5-in voice coil HF neodymium compression driver.

The MF driver shall be loaded into a midrange horn constructed of 1/8-in birch plywood backed with high density polyurethane foam. The HF driver shall be loaded on a constant directivity horn with a nominal coverage pattern of 60° (h) x 45° (v). An internal passive filter network shall provide fourth order acoustical crossover and system equalization.

System frequency response shall vary no more than ±3 dB from 200 Hz to 15 kHz measured on axis. The mid/high section shall produce a Sound Pressure Level (SPL) of 107 dB SPL on axis at 1 meter with a power input of 1 Watt and shall be capable of producing a peak output of 139 dB SPL on axis at 1 meter. The mid frequency section system shall produce a Sound Pressure Level (SPL) of 109 dB SPL on axis at 1 meter with a power input of 1 Watt and shall be capable of producing a peak output of 141 dB SPL on axis at 1 meter. The high frequency section shall produce a Sound Pressure Level (SPL) of 109 dB SPL on axis at 1 meter with a power input of 1 Watt and shall be capable of producing a peak output of 136 dB SPL on axis at 1 meter. The mid/high section shall handle 450 Watts of amplifier power (continuous) and shall have a nominal impedance of 8 Ohms. The mid frequency section shall handle 400 Watts of amplifier power. The high frequency section shall handle 125 Watts of amplifier power (continuous) and shall have a nominal impedance of 8 Ohms.

The loudspeaker enclosure shall be trapezoidal in shape. It shall be constructed of multi-ply, void-free, cross-grain-laminated, exterior grade, Baltic birch plywood and shall employ extensive internal bracing. It shall be finished in wear-resistant textured black paint . Input connectors shall be 2x 6-contact terminal barrier strips. Eighteen (18) 3/8"-16 threaded mounting/suspension points (4 each top, bottom and sides, 2 on back) shall be provided. The front of the loudspeaker shall be covered with a powder coated perforated steel grille.

The mid/high loudspeaker shall be the EAW model AS460e.

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